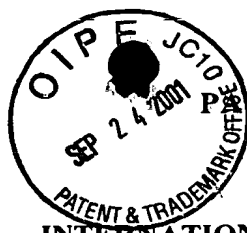


Translation



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference FH000103PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP00/00314	International filing date (day/month/year) 17 January 2000 (17.01.00)	Priority date (day/month/year) 23 February 1999 (23.02.99)
International Patent Classification (IPC) or national classification and IPC H03M 7/40		
Applicant FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E. V.		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>12</u> sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand 22 September 2000 (22.09.00)	Date of completion of this report 19 January 2001 (19.01.2001)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP00/00314

I. Basis of the report

1. This report has been drawn on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

☐ the international application as originally filed.

☒ the description, pages 1-6,8-12,14-21, as originally filed,
pages 7,7a-7b,13, filed with the demand,
pages _____, filed with the letter of _____,
pages _____, filed with the letter of _____.

☒ the claims, Nos. 1-15, as originally filed,
Nos. _____, as amended under Article 19,
Nos. _____, filed with the demand,
Nos. _____, filed with the letter of _____,
Nos. _____, filed with the letter of _____.

☒ the drawings, sheets/fig 3/6-6/6, as originally filed,
sheets/fig 1/6,2/6, filed with the demand,
sheets/fig _____, filed with the letter of _____,
sheets/fig _____, filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/fig _____

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-15	YES
	Claims		NO
Inventive step (IS)	Claims	1-15	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims		NO

2. Citations and explanations

This report makes reference to the following document:

D1: EP-A-0 612 156.

This invention relates to the transmission of variable-length code words.

According to independent Claims 1 and 14, a portion of a code word is written into the data stream "in a second direction of writing opposite to the first direction of writing, starting from a second raster point of a segment in each case". This wording corresponds to the wording "from right to left" in line 9 on page 15 of the description. According to the last paragraph on page 13 of the description, the data stream is what is transmitted from the transmitter to the receiver. This wording therefore clearly means that the data stream structure is such that words can be described as being written into the data stream as if "in a second direction of writing opposite to the first direction of writing", i.e. the data stream is packeted in such a way that a portion of the code word transmitted is written backwards in the data stream.

D1, which is considered to be the closest prior art, discloses the teaching that some of the variable-length code words are disposed in a raster and that the rest of the code words are distributed into the remaining gaps. The start of a code word can therefore be found more easily without complete decoding or in the event of faulty transmission.

According to the invention, a portion of the data stream transmitted is to be read backwards. For this portion the place in the data stream where reading must start can be identified **even** if transmission errors have occurred in the other portion, which is not written backwards. This limits the effect of error propagation.

There is nothing in the prior art to suggest this invention as defined in independent Claims 1, 9, 14 and 15. The inventive step requirements of PCT Article 33(1) and (3) are therefore satisfied.